								\$ 000 £
		cag Gln 5						48
		ga <b>a</b> Glu						96
		gtg Val						144
		aaa Lys						192
		aat Asn						240
		aag Lys 85						288
		gat Asp						336
		cca Pro						384
		gtc Val						432
		gac Asp						480
		aca Thr 165						528
		ggc						576
		gac Asp		Ser				624

FIG. 1A

																The Bush of the
tac Tyr	ctc Leu 210	agc Ser	tgc Cys	aag Lys	gag Glu	ctc Leu 215	agc Ser	cgc Arg	atg Met	ggc Gly	ccc Pro 220	tgc Cys	agt Ser	ttt Phe	gca Ala	672
gag Glu 225	ctg Leu	atc Ile	tcc Ser	aaa Lys	gac Asp 230	tgg Trp	cct Pro	gaa Glu	ttg Leu	cag Gln 235	gat Asp	gac Asp	att Ile	cca Pro	agc Ser 240	720
atc Ile	cta Leu	gcc Ala	caa Gln	gca Ala 245	cag Gln	aga Arg	atc Ile	ctg Leu	ttc Phe 250	gtg Val	gtc Val	gat Asp	ggc Gly	ctt Leu 255	gat Asp	768
gag Glu	ctg Leu	aaa Lys	gtc Val 260	cca Pro	cct Pro	ggg Gly	gcg Ala	ctg Leu 265	atc Ile	cag Gln	gac Asp	atc Ile	tgc Cys 270	gg <b>g</b> Gly	gac Asp	816
tgg Trp	gag Glu	aag Lys 275	aag Lys	aag Lys	ccg Pro	gtg Val	ccc Pro 280	gtc Val	ctc Leu	ctg Leu	gg <b>g</b> Gly	agt Ser 285	ttg Leu	ctg Leu	aag Lys	864
agg	aag Lys 290	atg Met	tta Leu	ccc Pro	agg Arg	gca Ala 2 <b>95</b>	gcc Ala	ttg Leu	ctg Leu	gtc Val	acc Thr 300	Thr	cgg Arg	ccc Pro	agg Arg	912
gca Ala 309	ctg Leu	agg Arg	gac Asp	ctc Leu	cag Gln 310	ctc Leu	ctg Leu	gcg Ala	cag Gln	cag Gln 315	ccg Pro	atc Ile	tac Tyr	ata Ile	agg Arg 320	960
gtg Val	g gag L Glu	ggc Gly	ttc Phe	ctg Leu 325	Glu	gag Glu	gac Asp	agg Arg	agg Arg 330	gcc Ala	tat Tyr	ttc Phe	ctg Leu	aga Arg 335	cac His	1008
tt! Phe	gga Gly	gac Asp	gag Glu 340	Asp	caa Gln	gcc Ala	atg Met	cgt Arg 345	gcc Ala	ttt Phe	gag Glu	cta Leu	atg Met 350	Arg	agc Ser	1056
aa: As:	c gcg n Ala	gcc Ala 355	Leu	ttc Phe	cag Gln	ctg Leu	ggc Gly 360	Ser	gcc Ala	ccc Pro	gcg Ala	gtg Val 365	Cys	tgg Trp	att	1104
gt: Va	g tgc l Cys 370	Thr	act Thr	ctg L <b>e</b> u	, aag Lys	ctg Leu 375	Gln	atg Met	gag Glu	aag Lys	999 Gly 380	r Glu	gac Asp	ccg Pro	ccg Pro	1152
gt Va 38	t ccc l Pro	gca Ala	ı ggg ı Gly	r Arç	aca Thr	Ala	gcg Ala	Gly	cgc Arg	gct Ala 395	Ala	g gac Asp	gct Ala	gag Glu	cct Pro 400	1
cc	t ggc	cgo Arg	g gca	ggg Gly 405	/ Leu	tgg Trp	gcg Ala	g cag L Glr	atg Met 410	Ser	gtg Val	g tto L Phe	cac His	cga Arg 415	Glu	1248

FIG. 1B

																	<u> </u>
P	rab lac	ctg Leu	gaa Glu	agg Arg 420	ctc Leu	Gly 999	gtg Val	cag Gln	gag Glu 425	tcc Ser	gac Asp	ctc Leu	cgt Arg	ctg Leu 430	ttc Phe	ctg Leu	1296
Į	Jac Asp	gga Gly	gac Asp 435	atc Ile	ctc Leu	cgc Arg	cag Gln	gac Asp 440	aga Arg	gtc Val	tcc Ser	aaa Lys	ggc Gly 445	tgc Cys	tac Tyr	tcc Ser	1344
1	tc Phe	atc Ile 450	cac His	ctc Leu	agc Ser	ttc Phe	cag Gln 455	cag Gln	ttt Phe	ctc Leu	act Thr	gcc Ala 460	ctg Leu	ttc Phe	tac Tyr	gcc Ala	1392
:	ctg Leu 465	gag Glu	aag Lys	gag Glu	gag Glu	gag Glu 470	ga <b>g</b> Glu	gac Asp	agg Arg	gac Asp	ggc Gly 475	cac His	gcc Ala	tgg Trp	gac Asp	att Ile 480	1440
,	ggg Gly	gac Asp	gt <b>a</b> Val	cag Gln	aag Lys 485	Leu	ctt Leu	tcc Ser	gga Gly	gaa Glu 490	gaa Glu	aga Arg	ctc Leu	aag Lys	aac Asn 495	ccc Pro	1488
	gac Asp	ctg Leu	att Ile	caa Gln 500	Val	gga Gly	cac His	ttc Phe	tta Leu 505	ttc Phe	ggc	ctc Leu	gct Ala	aac Asn 510	gag Glu	aag Lys	1536
	aga Arg	gcc Ala	aag Lys 515	gag Glu	ttg Leu	gag Glu	gcc Ala	act Thr 520	Phe	ggc Gly	tgc Cys	cgg Arg	atg Met 525	Ser	ccg Pro	gac Asp	1584
	atc Ile	aaa Lys 530	Glr	g gaa 1 Glu	ttg Leu	ctg Leu	caa Gln 535	Cys	aaa Lys	gca Ala	cat His	ctt Leu 540	ı His	gca Ala	aat Asn	aag Lys	1632
	ccc Pro	Lev	tco Ser	gtg Val	Thr	Asp	Leu	Lys	g gag s Glu	Val	. Leu	ιGl	tgc Cys	ctg Leu	tat Tyr	gag Glu 560	
	tct Ser	cag	g gag n Gli	g gag ı Glu	g gag ı Glu 569	ı Lev	g gcg 1 Ala	g aaq a Lys	g gtg s Val	gt <u>c</u> Val	. Val	g gco L Ala	c ccg	g tto Phe	aag Lys 575	GIU	1728
	att Ile	tct Se	at r Il	t cade His	s Let	g aca i Thi	a aat c Ası	act n Th:	t tct r Sei 589	: Gli	a gto ı Val	g ato L Mei	g cat t His	tgt G Cys	s Sei	tto Phe	: 17 <b>7</b> 6
	ago Sei	c cto	g aa u Ly 59	g cat s Hi:	t tg: s Cy:	t caa	a gad n Asj	tt Le 60	u Gli	g aaa n Lys	a cto	tc: 1 Se:	a cto r Leo 609	ı Glı	g gta 1 Val	a gca l Ala	1824 1
	aaq Ly:	g gg s Gl 61	g gt y Va	g tt	c cto	g gag u Gli	g aa u As: 61	n Ty	c atg	g gat t Asj	t tti p Phe	t ga e Gl 62	u Le	g gad u Ası	ati p Ile	t gaa e Glu	a 1872 1

FIG. 1C

																i .
ttt Phe 625	ga <b>a</b> Glu	agc Ser	tca Ser	aac Asn	agc Ser 630	aac Asn	ctc Leu	aag Lys	ttt Phe	ctg Leu 635	gaa Glu	gtg Val	aa <b>a</b> Lys	caa Gln	agc Ser 640	1920
ttc Phe	ctg Leu	agt Ser	gac Asp	tct Ser 645	tct Ser	gtg Val	cgg Arg	att Ile	ctt Leu 650	tgt Cys	gac Asp	cac His	gta Val	acc Thr 655	cgt Arg	1968
agc Ser	acc Thr	tgt Cys	cat His 660	ctg Leu	cag Gln	aaa Lys	gtg Val	gag Glu 665	att Ile	aaa Lys	aac Asn	gtc Val	acc Thr 670	cct Pro	gac Asp	2016
acc Thr	gcg Ala	tac Tyr 675	cgg Arg	gac Asp	ttc Phe	tgt Cys	ctt Leu 680	gct Ala	ttc Phe	att Ile	Gly 9 <b>9</b> 9	aag Lys 685	aag Lys	acc Thr	ct <b>c</b> Leu	2064
acg Thr	cac His 690	ctg Leu	acc Thr	ctg Leu	gca Ala	999 Gly 695	cac His	atc Ile	gag Glu	tgg Trp	gaa Glu 700	cgc Arg	acg Thr	atg Met	atg Met	2112
ctg Leu 705	atg Met	ctg Leu	tgt Cys	gac Asp	ctg Leu 710	ctc Leu	aga Arg	aat Asn	cat His	aaa Lys 715	tgc Cys	aac Asn	ctg Leu	cag Gln	tac Tyr 720	2160
ctg Leu	agg Arg	ttg Leu	gga Gly	ggt Gly 725	ca <b>c</b> His	tgt Cys	gcc Ala	acc Thr	ccg Pro 730	gag Glu	cag Gln	tgg Trp	gct Ala	gaa Glu 735	ttc Phe	2208
ttc Phe	ta <b>t</b> Tyr	gtc Val	ctc Leu 740	aaa Lys	gcc Ala	aac Asn	cag Gln	tcc Ser 745	ctg Leu	aag Lys	cac His	ctg Leu	cgt Arg 750	Leu	tca Ser	2256
gcc Ala	aat Asn	gtg Val 755	Leu	ctg Leu	gat .Asp	ga <b>g</b> Glu	ggt Gly 760	Ala	atg Met	ttg Leu	ctg Leu	tac Tyr 765	Lys	acc Thr	atg Met	2304
aca Thr	cgc Arg 770	Pro	aaa Lys	cac His	ttc Phe	ctg Leu 775	Gln	atg Met	ttg Leu	tcg Ser	ttg Leu 780	Glu	aac Asn	tgt Cys	cgt	2352
ctt Leu 785	Thr	gaa Glu	gcc Ala	agt S <b>e</b> r	tgc Cys 790	Lys	gac Asp	ctt Leu	gct Ala	gct Ala 795	Val	ttg Leu	gtt Val	gtc Val	agc Ser 800	2400
a <b>a</b> g Lys	aag Lys	ctg Lev	aca Thr	cac His	Leu	tgc Cys	ttg Lev	g gcc 1 Ala	aag Lys 810	Asr	cco Pro	att Ile	ggg Gly	gat Asp 815	aca Thr	2448
			ttt Phe 820	Lev			F	iG	. 1¦	D						2464
							_	_								



Apply the form of the formation of the f

## FIG. 2

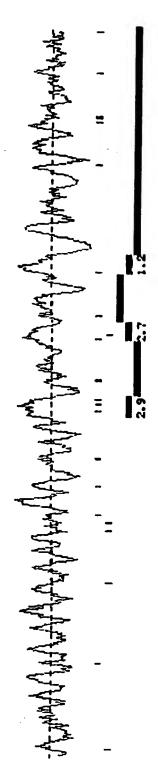
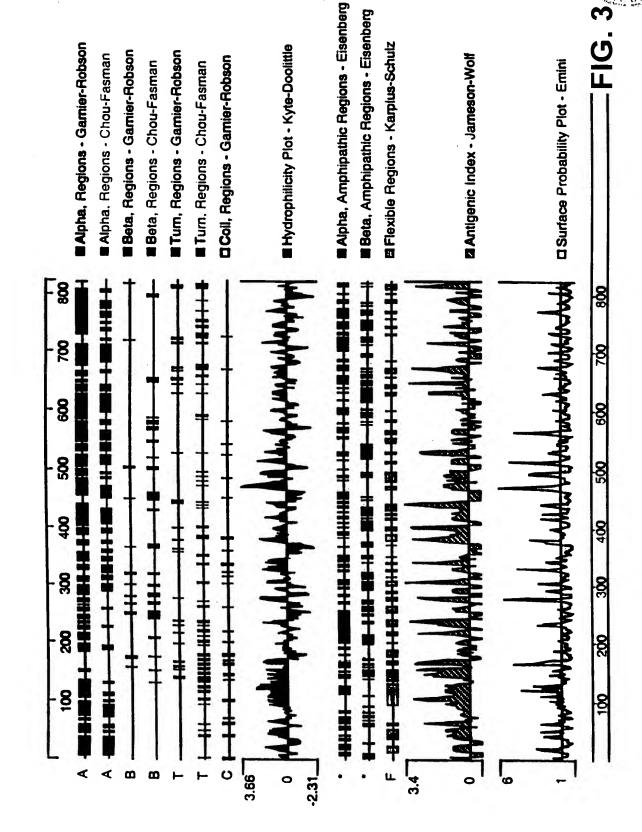


FIG. 6

Cys TW TM TM TM TM



NB-ARC: domain 1 of 1, from 176 to 190: score 11.4, E = 0.033 FIG. 4A 190 (SEQ ID NO: 9) \*->ivamogigkttlakq<-\* LHGPAGVGKTTLAKK ++G++G+GKTTLak+ 176 NBS-2

FIG. 4B = 0.57770 ы IRR\_RI\_2: domain 1 of 2, from 743 to 770: score 13.4, (SEQ ID NO:10) \*->npsLreLdLsnNklgdeGaraLaeaLks<-\* NOSLKHLRLSANVLLDEGAMLLYKTMTR n+sL+ L+Ls N 1 deGa+ L ++ + NBS-2 743

FIG. 4C 0.12 11 199 ធា LRR\_RI\_2: domain 2 of 2, from 772 to 799: score 18.2, (SEQ ID NO:10) \*->npstretdtsnNklgdeGarataeatks<-\* KHFLQMLSLENCRLTEASCKDLAAVLVV ++ L+ L+L+n+ 1+++ ++ La++L 772 NBS-2

1.2 623 Ы IRR RI 2: domain 1 of 1, from 596 to 623: score 11.0, \*->ppslreldlennklgdeGaralaealks<-\* MESLRELHIFDNDLNGISERILSKALEH r L++aL++ --BLTEL++ +N+1 296 (SEQ ID NO:10) NBS-3

**FIG. 8** 

· · · · · · · · · · · · · · · · · · ·	1,5															
48	gag ̈̀ Glu	cta Leu 15	tat Tyr	tgg Trp	ctg Leu	ctg Leu	gac Asp 10	ttt Phe	gac Asp	act Thr	tct Ser	gat Asp 5	tcg Ser	gaa Glu	gca Ala	atg Met 1
96	cgc Arg	gca Ala	ctg Leu 30	tat Tyr	aag Lys	aag Lys	ttt Phe	agt Ser 25	cag Gln	ttt Phe	gaa Glu	aag Lys	gac Asp 20	agt Ser	ctc Leu	aat Asn
144	aca Thr	atg Met	cag Gln	ata Ile 45	ctg Leu	cca Pro	ttt Phe	cag Gln	cca Pro 40	ctg Leu	aaa Lys	ttc Phe	gat Asp	ctt Leu 35	att Ile	aag Lys
192	tat Tyr	cag Gln	gga Gly	gag Glu	tat Tyr 60	tct Ser	atc Ile	cca Pro	ttg Leu	gtg Val 55	aac Asn	gct Ala	ctg Leu	gaa Glu	gaa Glu 50	aaa Lys
					atg Met											
288	ctt Leu	ata Ile 95	tac Tyr	ttc Phe	gtg Val	cat His	aac Asn 90	cga Arg	aga Arg	ggc Gly	att Ile	atc Ile 85	aag Lys	agg Arg	tgt Cys	ctt Leu
336 1	aat Asn	ct <b>c</b> Leu	aat Asn 110	aac Asn	gca Ala	tca Ser	tat Tyr	tat Tyr 105	agc Ser	acc Thr	tc <b>t</b> Ser	gat Asp	tat Tyr 100	gcc Ala	tta Leu	caa Gln
: 384 L	aat Asn	ata Ile	gtt Val	att Ile 125	act Thr	aaa Lys	gga Gly	tct Ser	gca Ala 120	aga Arg	gag Glu	gga Gly	atg Me <b>t</b>	ctg Leu 115	ttc Phe	gtg Val
432	atc Ile	atg Met	aac Asn	cag Gln	tgg Trp 140	atg Met	ga <b>g</b> Glu	ggt Gly	Lys	atc Ile 135	tgg Trp	agg Arg	ttg Leu	Val	gct Ala 130	ctg Leu
1	aac Asn 160	acc Thr	atg Met	cag Gln	aac Asn	ata Ile 155	gaa Glu	cac His	gct Ala	act Thr	ctc Leu 150	cac His	gtt Val	gtc Val	Tyr	tcg Ser 145
528 a	gct Ala	cag Gln 175	ggc Gly	gac Asp	cct Pro	tgg Trp	gac Asp 170	aag Lys	gcc Ala	atc Ile	Leu	gag Glu 165	gct Ala	ttg Leu	agc Ser	agc Ser
576 1	ctc Leu	Ile	ttc Phe 190	ctt Leu	ctc Leu	aaa Lys	Lys	ccc Pro	gat Asp	tct Ser	ctg Leu	Ile	gac Asp 180	gca Ala	att Ile	ccc
c 624 a	gct Ala	agt Ser	Glu	aat Asn 205	gtc Val	aat Asn	tta Leu	Glu	ttc Phe	aga Arg	ata Ile	aac Asn	Asp	ttg Leu	gac Asp	gag Glu

FIG. 5A

												•
						gtt Val						672
i						cca Pro						720
						gta Val						768
						tcg Ser 265						816
						cag Gln						8 <b>64</b>
		_	_	_		gtg Val	 _	_	_	_	_	912
						ctg Leu						960
						aca Thr						1008
						gag Glu 345						1056
						ctg Leu						1104
						agt Ser						1152
(						gtg Val						1200
						cgt Arg						1248

FIG. 5B

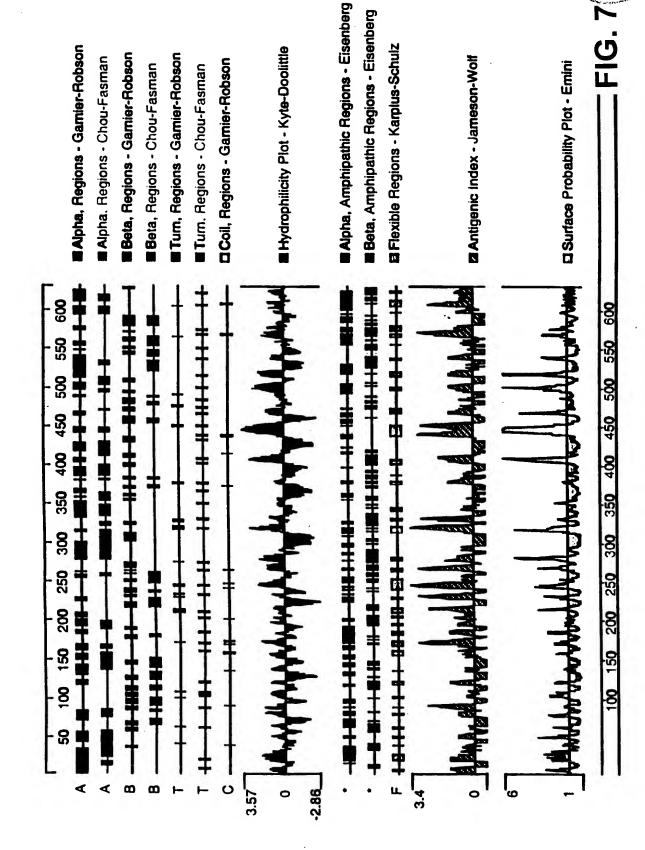
														7.	1
_	cag Gln			_		_		_	_	_	-	-		• •	1296
	ctg Leu					_	_				_	_	_		1344
	tct Ser 450	-													1392
	aac Asn														1440
-	gt <b>a</b> Val				_			_	 		_			_	1488
-	cgt Arg	_	_	_	-	_	_		_		_			_	1536
	tat Tyr						_		 _	_			_	_	1584
	atg Met 530														1632
	tta Leu							_	_				_	_	1680
_	gtt Val														1728
	agt Ser														1776
	tat Tyr														1824
	aat Asn 610														1872

FIG. 5C

1895

agc tgt aaa ctt cgc aca ctc aa Ser Cys Lys Leu Arg Thr Leu 625 630

FIG. 5D



																in the second
_	_	_	-		_				gac Asp 10			_				48
_		-			-				aag Lys	-	_			_	_	. 96
_	_			-					aga Arg	_	-	_	_	_		144
_	_	-			_		_		aag Lys			_	_	_	_	192
_	_	_			_			-	ctc Leu		_					240
	-				_	_			ata Ile 90			_	_	_		288
		-	_	_			_	_	tgg Trp		_		_	_		336
									aag Lys		-					384
			_				Ser		tca Ser	_		Glu	-	_	-	432
		_		_		_			cag Gln							480
									ttg Leu 170							528
_		_		Lys					aga Arg	_		_	_			576
									ggg Gly							624

FIG. 9A

																District Division
	gta Val 210			_	_			_	-		-	_	_			672
	ctg Leu	_			_			_							-	720
_	ccc Pro	_		_			-	_		_	_	_	_	_	_	768
-	agg Arg															816
	gcc Ala						_				_		_	_	_	864
_	gat Asp 290	-	_							-		_	_	_	_	912
	gaa Glu					_			_					_		960
	atc Ile				_									_		1008
	att Ile			Lys	Ile		Asp	Cys	Gly							1056
	cta Leu	_		_				-	_	_						1104
_	cct Pro 370	_	_	_						_					_	1152
_	tta Leu	_				_		_		_	_					1200
	gtt Val	_											_	_	_	1248

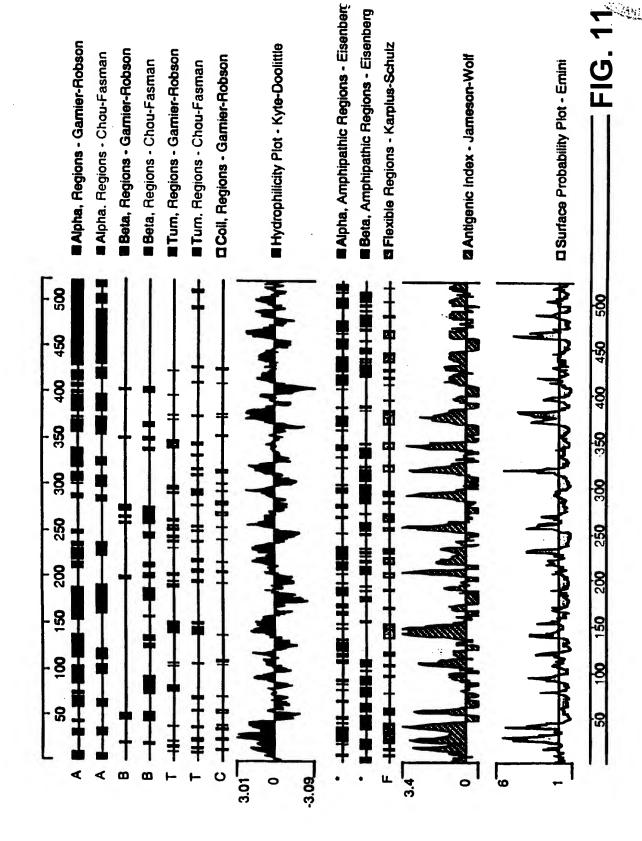
FIG. 9B

	ctg Leu	gaa Glu	gat Asp	act Thr 420	ttg Leu	cat His	tgt Cys	aaa Lys	ata Ile 425	tct Ser	ccc Pro	agg Arg	gta Val	atg Met 430	gag Glu	gaa Glu	1296
	tta Leu	tta Leu	aag Lys 435	tgg Trp	gga Gly	ga <b>a</b> Glu	gag Glu	tta Leu 440	ggt Gly	aag Lys	gct Ala	gaa Glu	agt Ser 445	gcc Ala	tct Ser	ctc Leu	1344
	caa Gln	ttt Phe 450	cac His	att Ile	cta Leu	cga Arg	ctt Leu 455	ttt Phe	cac His	tgc Cys	cta Leu	cac His 460	gag Glu	tcc Ser	cag Gln	gag Glu	1392
	gaa Glu 465	gac Asp	ttc Phe	aca Thr	aag Lys	aag Lys 470	atg Met	ttg Leu	ggt Gly	cgt Arg	atc Ile 475	ttt Phe	gaa Glu	gtt Val	gac Asp	ctt Leu 480	1440
	aat Asn	att Ile	ttg Leu	gag Glu	gac Asp 485	gaa Glu	ga <b>a</b> Glu	ctc Leu	caa Gln	gct Ala 490	tct Ser	tca Ser	ttt Ph <b>e</b>	tgc Cys	cta Leu 495	_	1488
. <del></del>	cac His	tgt Cys	aa <b>a</b> Lys	agg Arg 500	tta Leu	aat Asn	aag Lys	cta Leu	agg Arg 505	ctt Leu	tct Ser	gtt Val	agc Ser	agt Ser 510	cac His	atc Ile	1536
			agg Arg 515									G.	9C	,			1566

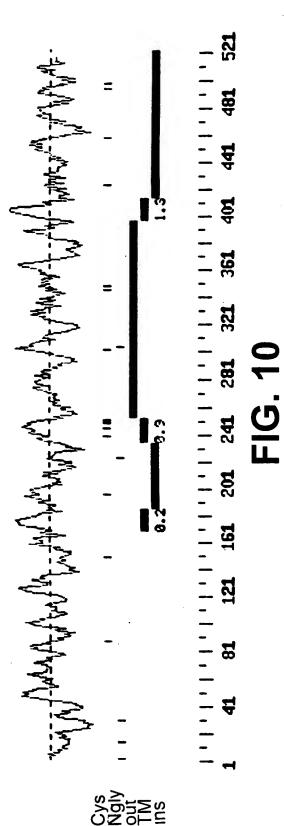
.

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NB-ARC: domain 1 of 1, from 50 to 79: score 9.4, E = 0.12 (SEQ ID NO:11) \*->ivGMGGiGKTTLakqiyndes..qevqrhP<-\* +vG++G+GKTTLa q+ ++++ ++q +F LVGRAGVGKTTLAMQAMLHWANGVLFQQRF 20

FIG. 12

_	r Ar		_	r Se		1 Th			u Ty	r Phe	
		gtc Val 20									97
		gaa Glu									145
		att Ile									193
		aac Asn									241
		ag <b>a</b> Arg									289
		aga Arg 100									337
		ccg Pro			-	_					385
		ggc Gly									433
_		cgg Arg									481
_	_	ccg Pro		-	-		_			_	529
		ctc Leu 180									577
		aac Asn									625

FIG. 13A

	a c	720								4					~	~~+	
Ly	s A	Asp 210	Pro	Lys	aga Arg	Ala	Met 215	gaa Glu	gcc Ala	Phe	Asn	ctt Leu 220	Val	Arg	Glu	Ser	673
	u C											ctc Leu					721
												aaa Lys					769
												ttc Phe					817
												caa Gln					865
	u I											atg Met 300					913
	ie (											gly aaa					961
ga As	ac sp	at <b>c</b> Ile	cct Pro	gcg Ala	ctg Leu 325	ctg Leu	ggc Gly	acc Thr	aag Lys	ata Ile 330	ctt Leu	ctg Leu	aag Lys	tac Tyr	999 Gly 335	gag Glu	1009
C Q	gt	ga <b>g</b> Glu	agc Ser	tcc Ser 340	tac Tyr	gtg Val	ttc Phe	ctc Leu	cac His 3 <b>45</b>	gt <b>g</b> Val	tgt Cys	atc Ile	cag Gln	gag Glu 350	ttc Phe	tgt Cys	1057
									Ser			gat Asp		Pro			1105
	la												Phe			gca Ala	1153
A							Phe					Leu				tta Leu 400	1201
						Glu					Phe					ctg Leu	1249

\_\_\_\_

FIG. 13B

			ata Ile 420													1297
			aat Asn													1345
			ga <b>a</b> Glu													1393
			ga <b>a</b> Glu													1441
			tac Tyr													1489
ttt Phe	tcc Ser	gtt Val	caa Gln 500	aat Asn	gtc Val	ttt Phe	aag Lys	aaa Lys 505	gag Glu	gat Asp	gaa Glu	cac His	agc Ser 510	tct Ser	acg Thr	1537
			agc Ser													1585
			cac His													1633
gag Glu 545	tcg Ser	acc Thr	ttt Phe	gtg Val	Thr	Trp	Cys	Asn	cag Gln	Leu	Arg	cat His	Pro	agc Ser	Cys	1681
			aag Lys													1729
			ttt Phe 580													1777
agc Ser	ttc Phe	acc Thr 5 <b>95</b>	ctc Leu	acg Thr	aaa Lys	ctc Leu	tct Ser 600	cgt Arg	gat Asp	gac Asp	atc Ile	agg Arg 605	tcc Ser	ctc Leu	tgt Cys	1825
gat Asp	gcc Ala 610	ttg Leu	aac Asn	tac Tyr	cca Pro	gca Ala 615	ggc Gly	aac Asn	gtc Val	aaa Lys	gag Glu 620	cta Leu	gcg Ala	ctg Leu	gta Val	1873

FIG. 13C

												gct Ala				1921 (0.9:1
												tgc Cys				1969
												agc Ser				2017
gtc Val	ctg Leu	gta Val 675	tac Tyr	ctg Leu	atg Met	ttg Leu	gct Ala 680	ttc Phe	tgc Cys	cac His	ct <b>c</b> Leu	agc Ser 685	gag Glu	cag Gln	tgc Cys	2065
												agc Ser				2113
												ctg Leu			ctc Leu 720	2161
												tca Ser				2209
									Cys			ctc Leu				2257
												99 <b>9</b> Gly 765				2305
		Asp					Leu					ctg Leu				2353
	Cys					Leu					Сув	gg <b>g</b>				2401
					Leu					Thr		agt Ser			Leu	2449
				Leu					Leu			aca Thr		Val		2497

FIG. 13D



gta ctc tgt gag gcc ctg aga cac cca gag tgt gcc ctg cag gtg ctc

Val Leu Cys Glu Ala Leu Arg His Pro Glu Cys Ala Leu Gln Val Leu

835

840

845

2575

ggg gtt gtt gca gga gta aga acc aag cag Gly Val Val Ala Gly Val Arg Thr Lys Gln 850 855

FIG. 13E

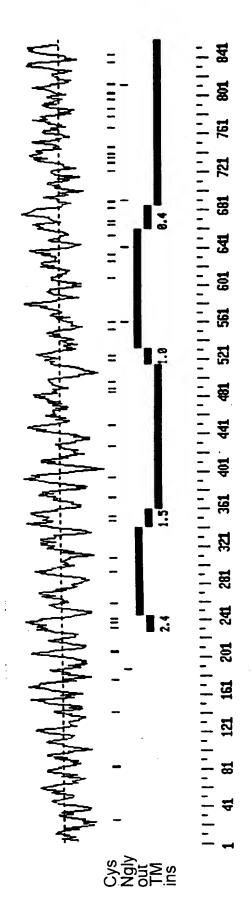
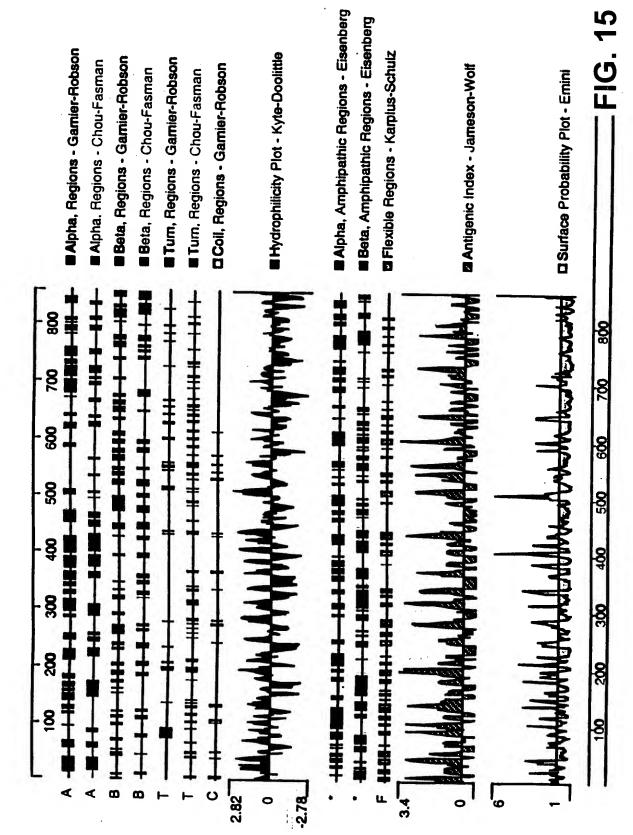


FIG. 14



The state of the s

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(SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                           FIG. 16A
                       + +LreL++++ +1 ++
                                            ++-L++
        NBS-5
                      SGHLRELQVQDSTLSESTFVTWCNQLRH
                                                       557
LRR_RI_2: domain 2 of 8, from 615 to 642: score 5.2, E = 8.4
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                        + +eL L n++1 + + +La +L+
                                                           FIG. 16B
        NBS-5
                615
                      ACNVKELALVNCHLSPIDCEVLAGLLTN
LRR_RI_2: domain 3 of 8, from 643 to 669: score 9.3, E = 2.2
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                           FIG. 16C
                      n++L L++s+N 1 d G+ L+eaL s
        NBS-5
               643
                      NKKLTYLNVSCNQL-DTGVPLLCEALCS
                                                       669
LRR_RI_2: domain 4 of 8, from 699 to 726: score 32.8, E = 7.9e-06
       (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                          FIG. 16D
                      n+s r LdLs N 1 deG + L+ealk+
       NBS-5
               699
                      NKSVRYLDLSANVLKDEGLKTLCEALKH
LRR_RI_2: domain 5 of 8, from 728 to 755: score 10.0, E = 1.8
      (SEQ ID NO:10) *->npsireidlsnNklgdeGaraLaeaiks<-*
                       ++L L L + ++++G+ La+aL s
                                                          FIG. 16E
       NBS-5
               728
                      DCCLDSLCLVKCFITAAGCEDLASALIS
LRR_RI_2: domain 6 of 8, from 756 to 783: score 30.9, E = 3e-05
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                      n++L+ L++++N +gd G++ L+ aL++
                                                      <sub>783</sub> FIG. 16F
       NBS-5
               756
                      NONLKILQIGCNEIGDVGVQLLCRALTH
LRR_RI_2: domain 7 of 8, from 785 to 812: score 8.0, E = 3.3
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                          FIG. 16G
                       ++L+ L L+ ++l+
                                      ++ La++L+
       NBS-5
               785
                     DCRLEILGLEECGLTSTCCKDLASVLTC
                                                      812
LRR_RI_2: domain 8 of 8, from 813 to 840: score 17.6, E = 0.14
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                     840 FIG. 16H
                     +++L+ L+L N+1
                                      G+ +L+ aL++
       NBS-5
               813
                     SKILQQLNLTLNTLDHTGVVVLCEALRH
```

LRR\_RI\_2: domain 1 of 8, from 530 to 557: score 6.4, E = 5.6

atg	aca	tcg	CCC	cag	cta	gag Glu	tgg	act	ctg	cag	acc	ctt	ctg	gag	cag	\ \ \	58 106
ctg Leu	aac Asn	gag Glu	gat Asp 20	gaa Glu	tta Leu	aag Lys	agt Ser	ttc Phe 25	aaa Lys	tcc Ser	ctt Leu	tta Leu	tgg Trp 30	gct Ala	ttt Phe		154
ccc Pro	ctc Leu	gaa Glu 35	gac Asp	gtg Val	cta Leu	cag Gln	aag Lys 40	acc Thr	cca Pro	tgg Trp	tct Ser	gag Glu 45	gtg Val	gaa Glu	gag Glu		202
gct Ala	gat Asp 50	ggc Gly	aag Lys	aaa Lys	ctg Leu	gca Ala 55	gaa Glu	att Ile	ctg Leu	gtc Val	aac Asn 60	acc Thr	tcc Ser	tca Ser	gaa Glu		250
aat Asn 65	tgg Trp	ata Ile	agg Arg	aat Asn	gcg Ala 70	act Thr	gtg Val	aac Asn	atc Ile	ttg Leu 75	gaa Glu	gag Glu	atg Met	aat Asn	ctc Leu 80		298
						gca Ala											346
gtg Val	caa Gln	gaa Glu	ata Ile 100	gat Asp	aat Asn	cct Pro	gag Glu	ctg Leu 105	gga Gly	gat Asp	gca Ala	gaa Glu	gaa Glu 110	gac Asp	tcg Ser		394
gag Glu	tta Leu	gca Ala 115	aag Lys	cca Pro	ggt Gly	gaa Glu	aag Lys 120	gaa Glu	gga Gly	tgg Trp	aga Arg	aat Asn 125	tca Ser	atg Met	gag Glu		442
						aag Lys 135											490
aat Asn 145	ttc Phe	cat His	gac Asp	gac Asp	gtc Val 150	act Thr	ctg Leu	aga Arg	aac Asn	caa Gln 155	cgg Arg	ttc Phe	att Ile	cca Pro	ttc Phe 160	!	538
					Pro	agg Arg											586
						gly ggg										(	634
						aac Asn										(	682
						ctc Leu 215										•	730

FIG. 17A

					gac Asp 230											778
				_	cag Gln	_		_			_	_			_	826
					cct Pro											874
					ccg Pro											922
					agg Arg											970
					cag Gln 310											1018
gtg Val	gag Glu	ggc Gly	ttc Phe	ctg Leu 325	gag Glu	gag Glu	gac Asp	agg Arg	agg Arg 330	gcc Ala	tat Tyr	ttc Phe	ctg Leu	aga Arg 335	cac His	1066
					caa Gln											1114
					cag Gln											1162
					aag Lys											1210
					cgc Arg 390											1258
					gca Ala											1306
					ggc Gly											1354
					ctc Leu											1402

FIG. 17B

																· 4.
											tcc Ser 460					1450
											act Thr					1498
											ggc Gly					1546
											gaa Glu					1594
											ggc Gly					1642
											tgc Cys 540					1690
											cat His					1738
											ttg Leu					1786
gag Glu	tct Ser	cag Gln	gag Glu 5 <b>80</b>	gag Glu	gag Glu	ctg Leu	gcg Ala	aag Lys 585	gtg Val	gtg Val	gtg Val	gcc Ala	ccg Pro 590	ttc Phe	aag Lys	1834
											gtg Val					1882
											ctc Leu 620					1930
											ttt Phe					1978
										_	aac Asn		_		_	2026
											tgc Cys					2074

FIG. 17C

tca Ser	aac Asn	agc Ser 675	aac Asn	ctc Leu	aag Lys	ttt Phe	ctg Leu 680	gaa Glu	gtg Val	aaa Lys	caa Gln	agc Ser 685	ttc Phe	ctg Leu	agt Ser	2122
gac Asp	tct Ser 690	tct Ser	gtg Val	cgg Arg	att Ile	ctt Leu 695	tgt Cys	gac Asp	cac His	gta Val	acc Thr 700	cgt Arg	agc Ser	acc Thr	tgt Cys	2170
cat His 705	ctg Leu	cag Gln	aaa Lys	gtg Val	gag Glu 710	att Ile	aaa Lys	aac Asn	gtc Val	acc Thr 715	cct Pro	gac Asp	acc Thr	gcg Ala	tac Tyr 720	2218
cgg Arg	gac Asp	ttc Phe	tgt Cys	ctt Leu 725	gct Ala	ttc Phe	att Ile	ggg Gly	aag Lys 730	aag Lys	acc Thr	ctc Leu	acg Thr	cac His 735	ctg Leu	2266
acc Thr	ctg Leu	gca Ala	999 Gly 740	cac His	atc Ile	gag Glu	tgg Trp	gaa Glu 745	cgc Arg	acg Thr	atg Met	atg Met	ctg Leu 750	atg Met	ctg Leu	2314
tgt Cys	gac Asp	ctg Leu 755	ctc Leu	aga Arg	aat Asn	cat His	aaa Lys 760	Cys	aac Asn	ctg Leu	cag Gln	tac Tyr 765	ctg Leu	agg Arg	ttg Leu	2362
gga Gly	ggt Gly 770	His	tgt Cys	gcc Ala	acc Thr	ccg Pro 775	gag Glu	cag Gln	tgg Trp	gct Ala	gaa Glu 780	ttc Phe	ttc Phe	tat Tyr	gtc Val	2410
ctc Leu 785	Lys	gcc Ala	aac Asn	cag Gln	tcc Ser 790	ctg Leu	aag Lys	cac His	ctg Leu	cgt Arg 795	ctc Leu	tca Ser	gcc Ala	aat Asn	gtg Val 800	2458
ctc Leu	ctg Leu	gat Asp	gag Glu	ggt Gly 805	Ala	atg Met	ttg Leu	ctg Leu	tac Tyr 810	Lys	acc Thr	atg Met	aca Thr	cgc Arg 815	cca Pro	2506
aaa Lys	cac	tto Phe	ctg Leu 820	Gln	atg Met	ttg Leu	tcg Ser	ttg Leu 825	Glu	aac Asn	tgt Cys	cgt Arg	ctt Leu 830	Thr	gaa Glu	2554
gcc	agt Ser	tgc Cys 835	Lys	gac Asp	ctt Leu	gct Ala	gct Ala 840	a Val	ttg Lev	gtt Val	gto Val	agc Ser 845	Lys	aag Lys	ctg Leu	2602
aca Thr	cac His	: Le	g tgo ı Cys	ttg Lev	g gcc ı Ala	aag Lys 855	Ası	c ccc n Pro	att Ile	ggg Gly	gat Asp 860	Thr	Gly ggg	gtg Val	aag Lys	2650
ttt Phe 865	e Lev	g tg ı Cy:	t gag s Gli	g ggo ı Gly	tto Lei 870	ı Ser	tac Ty	c cct r Pro	gat Ası	tgt Cys 875	: Lys	a ctg s Lev	g cag i Gln	aco Thr	ttg Leu 880	2698
gto Val	g tta Lev	a ca u Gl:	g caa n Gli	a tgo n Cys 88!	s Sei	ata r Ile	a acc	c aaq r Lys	g ctt s Lei 890	ı Gly	tgt / Cys	aga Arg	tat Tyr	cto Lev	tca Ser	2746

FIG. 17D

gag gcg ctc Glu Ala Leu	caa gaa gcc Gln Glu Ala 900	tgc agc ctc Cys Ser Leu 905	aca aac c Thr Asn I	ctg gac ttg Leu Asp Leu 910	agt atc Ser Ile	2794
		ttg tgg att Leu Trp Ile 920				2842
		cac cta cgg His Leu Arg 935	Leu Lys T			2890
ttg gaa atc Leu Glu Ile 945	aag aag cto Lys Lys Leu 950	g ttg gag gaa Leu Glu Glu	gtg aaa g Val Lys G 955	gaa aag aat Glu Lys Asn	ccc aag Pro Lys 960	2938
		gct tcc ggg Ala Ser Gly				2986
gac ttt ttt Asp Phe Phe		cct gggatcgc	tc tacgaat	ttac acaggaa	agcg	3038
agtctgtcga gagtcacgca	gaggtaggat t cccccttcac a	cttatgaat gc tgacactgg tt tgacgctat gt aaaaaaaaa aa	ttctcact a actttctc a	attttttggga g acagggataa t	gattctgcac	3098 3158 3218 3263

FIG. 17E

atg Met 1	gca Ala	gaa Glu	tcg Ser	gat Asp 5	tct Ser	act Thr	gac Asp	ttt Phe	gac Asp 10	ctg Leu	ctg Leu	tgg Trp	tat Tyr	cta Leu 15	gag Glu	48
		agt Ser														96
		ctt Leu 35														144
		gaa Glu														192
		aat Asn														240
		agg Arg														288
		gcc Ala														336
		ctg Leu 115			_	_	_						_			384
		gtg Val										Gln				432
		gtc Val														480
		ttg Leu														528
		gca Ala														576
		ttg Leu 195														624
		agt Ser														672

FIG. 18A

																<b>沙雪亚外</b>
					aaa Lys 230											12
					Gly aaa											768 768
					ttg Leu											816
					aaa Lys											864
ctt Leu	gta Val 290	cat His	gag Glu	gat Asp	gaa Glu	ata Ile 295	ctc Leu	gtg Val	ggt Gly	ctg Leu	tgc Cys 300	cga Arg	gtc Val	gcc Ala	atc Ile	912
tta Leu 305	tgc Cys	tgg Trp	atc Ile	acg Thr	tgt Cys 310	act Thr	gtc Val	ctg Leu	aag Lys	cgg Arg 315	cag Gln	atg Met	gac Asp	aag Lys	ggg Gly 320	960
					tgc Cys											1008
ttt Phe	ctt Leu	gct Ala	gat Asp 340	gcg Ala	ttg Leu	aca Thr	tca Ser	gag Glu 345	gct Ala	gga Gly	ctt Leu	act Thr	gcc Ala 350	aat Asn	cag Gln	1056
					cta Leu											1104
ctg Leu	ttt Phe 370	ctg Leu	agc Ser	acc Thr	ctg Leu	aat Asn 375	ttc Phe	agt Ser	ggt Gly	gaa Glu	gac Asp 380	ctc Leu	aga Arg	tgt Cys	gtt Val	1152
9 <b>99</b> Gly 385	ttt Phe	act Thr	gag Glu	gct Ala	gat Asp 390	gtc Val	tct Ser	gtg Val	ttg Leu	cag Gln 395	gcc Ala	gcg Ala	aat Asn	att Ile	ctt Leu 400	1200
					cat His											1248
					aca Thr											1296
tat Tyr	ctg Leu	atc Ile 435	ccc Pro	tca Ser	ggc Gly	agc Ser	aga Arg 440	gag Glu	tat Tyr	aaa Lys	gag Glu	aag Lys 445	aga Arg	gaa Glu	caa Gln	1344

FIG. 18B

															•
		gac Asp													1392
		agg Arg	_	_										_	1440
		gac Asp			_		_	-							1488
		gac Asp													1536
		gag Glu 515													1584
		gag Glu													1632
		tac Tyr	_	_	_	_	_		_				_	_	1680
_	_	cag Gln	_												1728
_	_	caa Gln	_	_	_	_			_			-			1776
		aca Thr 595													1824
		ggt Gly													1872
_	_	aaa Lys				_	_			-	_				1920
		gaa Glu													1968
		agt Ser													2016

FIG. 18C

															100 mg		37
ctg Leu	cat His	gac Asp 675	atc Ile	ctg Leu	cac His	gag Glu	Pro 680	Thr	tgc Cys	caa Gln	ata Ile	agt Ser 685	His	ctg Leu	agc Ser	tu.	2064
ttg Leu	atg Met 690	тÀв	tgt Cys	gat Asp	ttg Leu	cga Arg 695	Ala	ago Ser	gaa Glu	tgc Cys	gaa Glu 700	ı Glu	atc Ile	gcc Ala	tct	No.	2112
ctc Leu 705	Leu	atc Ile	agt Ser	ggc Gly	999 Gly 710	agt Ser	ctg Leu	aga Arg	aaa Lys	ctg Leu 715	acc Thr	tta Leu	tcc Ser	agc Ser	aat Asn 720		2160
ccg Pro	ctg Leu	agg Arg	agc Ser	gac Asp 725	Gly 999	atg Met	aac Asn	ata Ile	ctg Leu 730	Cys	gat Asp	gcc Ala	ttg Leu	ctt Leu 735	cat His		2208
PIO	ASII	tgc Cys	740	ьeu	TTE	ser	Leu	Val 745	Leu	Ser	Gly	Cys	Phe 750	Phe	Ser		2256
agc Ser	gat Asp	atc Ile 755	tgt Cys	caa Gln	tat Tyr	att Ile	gcc Ala 760	ata Ile	gtt Val	att Ile	gct Ala	act Thr 765	aat Asn	gaa Glu	aaa Lys		2304
ctg Leu	agg Arg 770	agc Ser	ctg Leu	gag Glu	att Ile	999 Gly 775	agc Ser	aac Asn	aaa Lys	ata Ile	gaa Glu 780	gat Asp	gca Ala	gga Gly	atg Met		2352
785	Leu	cta Leu	Cys	GIA	Gly 790	Leu	Arg	His	Pro	Asn 795	Cys	Met	Leu	Val	Asn 800	:	2400
116	GIÀ	cta Leu	GIU	805	Cys	Met	Leu	Thr	Ser 810	Ala	Cys	Cys	Arg	Ser 815	Leu	;	2448
Ala	ser		820	Thr	Tnr	Asn	Lys	Thr 825	Leu	Glu	Arg	Leu	Asn 830	Leu	Leu	:	2496
caa Gln	aat Asn	cac His 835	ttg Leu	ggc Gly	aat Asn	gat Asp	gga Gly 840	gtt Val	gca Ala	aaa Lys	ctt Leu	ctt Leu 845	gag Glu	agc Ser	ttg Leu	2	2544
me	agc Ser 850	cca Pro	gat Asp	tgt Cys	Val	ctt Leu 855	aag Lys	gta Val	gtt Val	Gly	ttg Leu 860	atg Met	gct Ala	gct Ala	gag Glu	2	2592
aac Asn 865	atg Met	gag Glu	tcc Ser	Leu	att Ile 870	ccc Pro	agg Arg	cca Pro	gca Ala	cgc Arg 875		FIG	<b>3</b> . 1	<b>18</b> [	)	2	628

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